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**Perkins**

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- (54) **PROCESS FOR MAINTAINING ONGOING REGISTRATION FOR PAGES ON A GIVEN SEARCH ENGINE**

- (75) Inventor: **Alan Perkins**, Kettering (GB)

- (73) Assignee: **Search Mechanics, Inc.**, New York, NY  
(US)

(Continued)

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*Primary Examiner*—Shahid A Alam

(74) *Attorney, Agent, or Firm*—Kenneth A. Roddy

(57) **ABSTRACT**

A process for maintaining ongoing registration for pages on a given search engine is disclosed. It is a method to actively cause an updating of a specific Internet search engine database regarding a particular WWW resource. The updated information can encompass changed, added, or deleted content of a specific WWW site. The process comprises the steps of having software tools at a local WWW site manually and/or automatically keep an index of added, changed, or deleted content to a particular WWW site since that WWW site was last indexed by a specific Internet search engine. The software tools will notify a specific Internet search engine of the URLs of specific WWW site resources that have been added, changed, or deleted. The Internet search engine will process the list of indices of changes, additions or deletions provided by a web site, or add the URL of resources that require indexing or re-indexing to a database and visit the WWW site to index added or re-index changed content when possible. The benefit to the Internet is the creation of an exception-based, distributed updating system to the Internet search engine as opposed to the cyclical and repetitive inquiring by the Internet search engine to visit all WWW sites to find added, changed, or deleted content. Overall Internet transmissions are reduced by distributing the update and indexing functions locally to web sites and away from the central Internet search engine.

**14 Claims, 6 Drawing Sheets**

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- (64) Patent No.: **6,253,198**  
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- (52) **U.S. Cl.** ..... 707/3; 707/9; 707/10; 707/104.01;  
709/203; 709/218; 715/201; 715/209; 715/234

- (58) **Field of Classification Search** ..... 707/2,  
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See application file for complete search history.

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